

L 9077-65 ENT(1)/ENT(m)/T-2 APWL/AS(ep)-2/ASD(d)/SSD/AZDC(b)/AEDC(a)/

AFETR JD

ACCESSION NR: AR4031825

8/0273/64/000/001/0005/0006

SOURCE: Referativnyy zhurnal. Dvigateli vnutrennego sgoraniya. Otdel'nyy
vyypusk, Abz. 1.39.20

AUTHOR: Kushnir, V. M.

TITLE: Entropy in the actual cycle of an internal combustion engine and construction of entropy diagrams for engines of a new type

CITED SOURCE: Tr. Leningr. in-t aviats. priborostr., vyp. 38, 1962, 149-169

TOPIC TASS: internal combustion engine, entropy, Otto cycle, engine, engine design, internal combustion engine design, internal combustion

TRANSLATION: Formulas are given for internal energy and entropy at thermal capacities which are linearly dependent on the temperature. There is a study of the entropy diagram of an internal combustion engine operating on a new cycle with full and partial loading. In comparison with engines working on Otto's cycle, the new engine shows less entropy change with an identical expenditure of heat. The

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indicated efficiency of the new engine is 0.43, i.e., 1.4 times higher than in engines operating on Otto's cycle. Heat characteristics and thermal calculations indicate the thermodynamic efficiency of the new cycle, while at the same time it is possible to control the process of combustion. Orig. art. has: 2 figures, 2 tables. P. Shelast.

SUB CODE: PR

ENCL: 00

Card 2/2

_KUSHUL', Veniamin Moiseyevich; NAYDENKO, O.K., kand. tekhn. nauk,
retsenzent; KAZAKOV, L.M., inzh., retsenzent; ZAKHARENKO,
B.A., nauchn. red.; VARKOVETSKAYA, A.I., red.

[New type of internal combustion engine] Novyi tip dviga-
telia vnutrennego sgoraniia. Leningrad, Sudostroenie,
1965. 211 p. (MIRA 18:4)

L 26599-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JA
 ACCESSION NR: AT5003396 S/2539/63/000/043/0050/0054

AUTHOR: Kushunin, B. A.; Gordiyevskiy, A. V.; Kiryushov, V. N.

TITLE: Selective effects in the X-ray fluorescence spectral analysis of the rare-earth elements of the cerium group

SOURCE: Moscow. Khimiko-tekhnologicheskii institut. Trudy, no. 43, 1963. Issledovaniya v oblasti khimii i tekhnologii radioaktivnykh i redkikh elementov (Research in the field of the chemistry and technology of radioactive and rare elements), 50-54

TOPIC TAGS: rare earth, cerium group, rare earth fluorescence, rare earth analysis, X-ray fluorescence, fluorescence spectrum

ABSTRACT: The authors studied the possibility of determining the rare earth elements of the cerium group by means of fluorescence spectra, using a DRUS-2 spectrometer. Cadmium oxide was used as the filler in samples of oxides of lanthanum, cerium, samarium, praseodymium, and neodymium. The intensity of the analytical lines of some of these elements was studied as a function of the content of the others, which acted as interfering impurities. The experiments showed the presence of selective effects in the elements of the cerium series, and a fairly complex relationship governing their mutual influence was found.

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ACCESSION NR: AT5003396

Thus, in a quantitative X-ray spectral determination of these elements in their mixtures, these effects must be taken into consideration, and the corresponding corrections must be introduced. Orig. art. has: 5 figures, 2 tables and 3 formulas.

ASSOCIATION: Khimiko-tekhnologicheskii instiut, Moscow (Chemical engineering Institute)

SUBMITTED: 00

ENCL: 00

SUB CODE: IC

NO REF SOV: 004

OTHER: 000

Card 2/2

KUSHNIN, B.A.; GORDIYEVSKIY, A.V.; KIRYUSHOV, V.N.

Selective effects in the fluorescent X-ray spectral analysis
of rare-earth elements of the ceria group. Trudy NENI no.43: 1.
50-54 1963. (MIRA 17:10)

ARKHIPOV, D.; KUSHVID, N.

Building trenchlike swine houses. Sel', stroi. 14 no. 11:11-12 N '59
(MIRA 13:3)

1. Direktor Krasnodarskogo filiala Nauchno-issledovatel'skogo instituta sel'skogo stroitel'stva (for Arkhipov). 2. Glavnyy inzhener konstruktorskogo byuro Krasnodarskogo filiala Nauchno-issledovatel'skogo instituta sel'skogo stroitel'stva (for Kushvid).
(Krasnodar Territory--Swine houses and equipment)

KUSHVID, N.

Paved areas for loose housing and feeding of cattle.
Sel'stroi. 15 no.8:27 Ag '60. (MIRA 13:8)

1. Nachal'nik konstruktorskogo byuro Krasnodarskogo
filiala Nauchno-issledovatel'skogo instituta sel'skogo
stroitel'stva.
(Farm buildings)

KUSHVID, N.

Precast sectional bunker silo. Sel'. stroi. 16 no.9-Insert:1-2 S '61.
(MIRA 14:9)

1. Nachal'nik konstruktorskogo byuro Krasnodarskogo filiala
nauchno-issledovatel'skogo instituta sel'skogo khozyaystva.
(Silos)

(Precast concrete construction)

BOROVSKIKH, V.G.; KUSHVID, N.A.

Increase in the work output of locomotives. Elek. i tepl.
tiaga no.5:4-8 My '63. (MIRA 16:8)

1. Nachal'nik lokomotivnogo depo Kurgan (for Borovskikh).
2. Sekretar' partiynogo komiteta lokomotivnogo depo Kurgan
(for Kushvid).

(Locomotives)

Kushvidenko, P.P.
IVANOV, Ye.S.; KUSHVIDENKO, P.P.

Use of static condensers at peat winning enterprises of the
Sverdlovsk Peat Trust. Torf.prom. 31 no.6:15-16 '54. (MLRA 7:9)

1. Sverdlovskiy torfotrest (for Ivanov). 2. Monetnoye torfopred-
priyatiye (for Kushvidenko).
(Condensers (Electricity))

KUSIAK, Bronisław; TUROWSKI, Gabriel

Deep aerated culture of Salmonella typhi and Salmonella paratyphi
A and B. Med. dosw. mikrob. 11 no.3:237-247 1959.

1. Z Krakowskiej Wytworni Surowic i Szczepionek Dyrektor: mgr. W. Muz
Doradca naukowy: prof. dr med. Z. Przybylkiewicz
(SALMONELLA PARATYPHI, culture)
(SALMONELLA TYPHOSA, culture)

SCHILLER, Barbara; TUROWSKI, Gabriel; KUSIAK, Bronislaw

Morphology of Salmonella typhi and paratyphi A and B in deep-aerated cultures. Med. dosw. mikrob. 11 no.3:249-253 1959.

1. Z Krakowskie, Wytworni Surowic i Szczepionek Dyrektor: mgr. W. Muz
Doradca naukowy: prof. dr med. Z. Przybylkiewicz.
(SALMONELLA PARATYPHI, culture) (SALMONELLA TYPHOSA, culture)

KUSIAK, Izabela, mgr.

Shock culture of *Corynebacterium diphtheriae* applied to the production of diphtheric antigen. *Farmacja Polska* 19 no.8:183-185 Ap '62.

1. Wytwarznia Surowic i Szczepionek, Krakow: Dyrektor: dr. med. wet.
2. Moszczenski Doradca naukowy: prof. dr. med. Z. Przybylkiewicz

KUSIAK, J.

Principles of manipulation in spinning carded wool. IV. (To be contd.) P.7

PRZEGLAD WLOKNIENICZY. (Stowarzyszenie Inzynierow I Technikow Przemyslu
Wlkienniczego) Lodz, Poland
Vol.13, no.1, Jan. 1959

Monthly list of East European Accessions (FEAI) LC, Vol9, No.1, Jan. 1960

Uncl.

KUSIAK, Marian; MARKIEWICZ, Jan

Fatal intoxications after the intraduodenal administration of
manganese sulfate. Polski tygod. lek. 16 no.18:674-679 1 My '61.

1. Z Zakladu Medycyny Sadowej A.M. w Krakowie, kierownik: prof. dr
nauk med. Jan Olbrycht i z Instytutu Ekspertyz Sadowych w Krakowie,
kierownik: doc. dr Jan Sehn.

(MAGNESIUM toxicol) (SULFATES toxicol)
(TAPEWORM INFECTION ther)

HEWIAK, Marian
Surnames (in caps); Given Names

3

Country: Poland

Academic Degrees:

Department of Legal Medicine, School of Medicine (AM - Akademia Medyczna), Cracow; Director: Jan GIERKOWSKI, Prof. Dr. of Medical Sciences and Institute for Expert Legal Examinations (Instytut
Source: Warsaw, Polski Tygodnik Lekarski, No 18, 1 May 1961, pp 674-679.

Data: "Fatal Intoxication Caused by Intraduodenal Administration of Magnesium Sulphate. Report of Two Cases."

Co-author:

MARKIEWICZ, Jan

KUSIAK, Marian

History of the Department of Forensic Medicine in Krakow. Pol.
tyg. lek. 19 no.18:683-684 27 Ap 1974.

GASCIŃSKA, ZOFIA, FUSIAK-DADAK, Maria

The stasis-telangiectasia syndrome. Pediat. Pol. 37 no.2:
955-959 Ag '64

1. Z II Kliniki Chorob Dzieci Akademii Medycznej w Krakowie
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TOSIC, Stanislav, sanitetski pukovnik, docent, dr.; KUSIC, Miodjub,
sanitetski potpukovnik, dr.; POTKONJAK, Dusan sanitetski
pukovnik, dr.

Ulcerative colitis. Vojnosanit. pregl. 22 no.2:75-80 F'65.

1. Vojnomedicinska akademija u Beogradu, Klinika za unutrasnje
bolesti.

KUSIC, Miodjub, sanitetski potpukownik, dr.

Use of hypothermia in gastroenterology. Vojnosanit. pregl. 22
no. 43242-244 Ap'65.

KUSIC, Momir

Experiences in the field of cooperation in the Machine Factory "Ivo
Lola Ribnikar", Zelezni', near Bologada. Produktivnost 3 no.5:384-385
My '61.

ANTIC, Milovan, sanitetski pukovnik, docent. dr.; KONSTANTINOVIC, Ivan, dr;
KUSIC, Radivoje, sanitetski kapetan I klase; MARKIC, Mihajlo,
sanitetski poručnik, dr.

Evaluation of the diagnostic value of the I-131 fixation test
in thyroid diseases. Vojnosanit. pregl. 21 no.9:533-539 S 164

1. Vojnomedicinska akademija u Beogradu, Klinika za unutrašnje
bolesti.

KDYRNIIYAZOV, G.N.; KUSIDI, K.F.

Effect of blood transfusion on the change in heredity
in sheep. Izv. NI Kazakh. SSR. Ser. biol. nauk 3 no.4:
89-93 JI-Ag '65. (MIRA 13:11)

KUSIDI, N.G.

Industrial methods for wiring work using rigid metal conduits.
Energ.bkul. no.1:11-15 Ja '56. (MLRA 9:5)
(Electric conduits)

CZECHOSLOVAKIA/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77088.

Author : Kusik Rudolf.

Inst :

Title : Contribution to the Question of the Origin and Composition of Oolitic Iron Ore from Oravice.

Orig Pub: Geol. sbor., 1957, 8, No 2, 335-344.

Abstract: The studied ore consists of 3 main parts; 1/oölites of various shape and size (from 0.16 to 0.80 mm), 2/ organic substance and 3/ binding material consisting nearly exclusively of medium-grained and fine-grained crystalline limestone. The limits of the chemical compositions of oölites are the following (according to 4 samples, in %): SiO_2 - 2.92 to 3.72, Al_2O_3 - 0.25 to 0.97, CaO - 40.80

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CZECHOSLOVAKIA/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour: Ref Zhur-Khin., no 23, 1958, 77088.

chamosite, which gradually impregnated the oörites. -
R. Khmel'nitsiy.

Card : 3/3

25

KUSIK, R.

GEOGRAPHY & GEOLOGY

Periodicals: PRASY SOLVENSKA. Vol. 34, No. 1, 1957.

KUSIK, R. Gravice through the eyes of a geologist, p. 77.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959.
"Incluss."

BELOUSOV, A.P., dots., kand. tekhn. nauk; YEFIM'YEV, A.N., dots.,
retsensent; KUSIKOV, S.N., dots., retsensent; KOSCHENKO,
V.S., prof., doktor tekhn. nauk, red.

[Design of attachments] Proektirovanie prispособlenii.
Moskva, Mashinostroenie, 1964. 186 p. (MIRA 18:2)

24(8) PRAISE I BOOK EXPLOITATION SOV/1826

Academiya nauk SSSR. Energoizdaty Institut

Teplotoobmena i teplovoe modelirovaniye (Heat Transfer and Modeling of Heat Processes). Moscow, Izd-vo AN SSSR, 1959. 319 p. Errata slip inserted. 3,500 copies printed.

Reep. Ed.: M. A. Nikheyer, Academician; Ed. of Publishing House: D. A. Ivanova; Techn. Ed.: G. M. Shevchenko.

PURPOSE: The book is intended for scientists concerned with heat transfer, heat emission, and hydraulics of liquid metals, etc.

COVERPAGE: This collection is dedicated to the memory of Academician M. V. Kirpichev who in the twenties initiated a scientific investigation of heat transfer processes and the efficiency of heat apparatus. Later he led the development of research work in this field. Two special collections devoted to works of Kirpichev's school have been published, one in 1935, Materialy sveshcheniya po modelirovaniyu (Materials of the Conference on Modeling) and in 1951, Teoriya potobliya i modelirovaniya (Theory of Stallitude and Modeling). The present collection prepared in 1956 represents further development of the work of this school. This represents fundamental for the analysis of many heat problems in the field of electrical and radio engineering. Of great importance are the hydraulic investigations of liquid metals which as a new kind of heat carrier may be used in the various branches of modern engineering. As a result of special investigations of some cases of convective heat transfer, a dependence of the process on the kind of liquid, temperature, pressure, direction of the heat flow, and other factors, was discovered and established. On the basis of a wide generalization of experimental data, new design recommendations for heat analysis of engineering equipment were developed. Of no less interest is the work on heat transmission in boiling liquids and the condensation of vapors. All investigations are based on the theory of stallitude, the nature of which, according to M. V. Kirpichev, is that of "experimentation." Work on the theory of a regular heat applied to a system of bodies with an internal source of heat is of interest for the future.

Nikheyer, M. A. Average Heat Transfer in the Flow of Liquids and Pipes. 122
As a result of the analysis and generalization of experimental data of the average heat-transfer in various liquids in turbulent motion (Reynolds number 10⁴ to 10⁶), in long pipes (length to diameter ratio 1 to 50), the following equation was established: $K = 0.021 \cdot \frac{1}{\sqrt{1 + 0.0001 \cdot \frac{1}{Re} + 0.0001 \cdot \frac{1}{Pr} + 0.0001 \cdot \frac{1}{Pr^2}}}$ in which the average temperature of the working fluid is the determining temperature and the equivalent (hydraulic) diameter is the determining dimension. On a diagram in the form of a log-log plot, the determining dimension is the first equating equation: $K = 0.021 \cdot \frac{1}{\sqrt{1 + 0.0001 \cdot \frac{1}{Re} + 0.0001 \cdot \frac{1}{Pr} + 0.0001 \cdot \frac{1}{Pr^2}}}$. The material was divided into 7 groups, 1) experimental data for gases and steam; 2) true liquids in circular pipes; 3) water, air, and steam in circular coils; 4) water and pipes in rectangular section; 5) air in coils of trapezoidal, rectangular and circular pipes inside; 6) air in coils of trapezoidal, rectangular and circular conduit and in pipes and water in conduits composed of an outer conduit and 1 or 2 inner conduits. Experimental data confirm the calculations calculated by the proposed equation. There are 25 references.

Average, To, K, Re, Pr, L, D, μ , ρ , γ , α , β , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , \omicron , π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , 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KUSIKOVA, G. I.

②
Electric moisture indicator for molding sands. G. I. Kusikova and V. I. Krebs. *Litnnoe Proizvodstvo* 1953, No. 10, 9-10. Elec. cond. of molding sands is fully ionic up to 2 ma. c.d., and is caused by the presence of water film coating the grains of the mixt. It does not follow Ohm's law since, with the increased c.d., conc. increases. Specific cond. of a sand is a function of comp. ssion applied to it, moisture compn., temp., and c.d. With a water content

below 2-2.5% its vol. in the mixt. is so small that a continuous film around all grains cannot form and no closed circuit is produced. Between 4.5 and 9% the cond. grows as a result of an enlarged cross section of the electrolyte, and a further increase of the moisture raises the cond., but little since most ions of the salt-poor water filling the pores are already taking part in conducting. Influence of sand compn. is appreciable. Under a pressure of 0.5 kg./sq. cm. and a moisture content of 5%, old sand has a cond. of 0.37×10^4 , molding sand of 0.33, and fresh sand of 0.28×10^4 ohms. Temp. increases cond. but slightly, and an increase in c.d. to 1.5 ma. raised cond. from 2 to 5×10^4 ohms for samples carrying 0.8% moisture and compressed under 0.5 kg./sq. cm. Moisture detns. can be made in a few min. with a schematically described probe and measuring circuit.

J. D. Gut /

L1055

S/058/62/000/008/034/134
A061/A101

26-1054
AUTHOR: Kusikova, G. I.

TITLE: Generation and exploitation of gas ionic currents

PERIODICAL: Referativnyy zhurnal, Fizika, no. 8, 1962, 74, abstract 8B537
("Uch zap. Kabardino-Balkarsk. un-t", 1961, no. 13, 165 - 171)

TEXT: The power diagram of a jet engine is considered, in which propulsion is achieved by the expulsion of atmospheric air under the action of a directed ionic current. The working principle of this device and the mathematical calculations for determining the main power parameters are given. The possibility of using radioactive alpha radiation as the ionizing agent is discussed.

[Abstracter's note: Complete translation]

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KUSIL'MAN, M. S.

Mekhanizatsiia truda - osnova pod''oma ugol'noi promyshlennosti SSSR /Mechanization of labor, the basis of progress in the coal industry/. Moskva, Gospolitizdat, 1953. 224 p.

SO: Monthly List of Russian Accessions, Vol 6 No 6 September 1953

NOV-28-58-111-55

AUTHORS: Krynkin, K.M. and Kuzil mat. M.S.

TITLE: Standardization and Normalization - the Basis of Specialization and Cooperation in the Industry (Standartizatsiya i normalizatsiya - osnova spetsializatsii i kooperirovaniya promyshlennosti)

PERIODICAL: Standartizatsiya, 1958, Nr 4, pp 3 - 7 (USSR)

ABSTRACT: General information is presented on specialization and co-operation of industrial enterprises in the USSR and on measures which have been taken to organize specialized production, i.e. unifying sovnarkhozes into geographical groups headed by one leading sovnarkhoz. Specialization in industrial production is performed on the basis of existing standards and norms. Coordination and administration of normalization is carried out by the Committee of Standards, Measures and Measuring Devices of the USSR Council of Ministers. Together with scientific-research organizations and designing offices, the Committee developed and approved a normalization plan for 1958 including

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over 600 items as well as a supply of technical information, i.e. catalogues of selected norms containing all necessary designing measurements

ASSOCIATION: Komitet standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR (Committee of Standards, Measures and Measuring Devices of the USSR Council of Ministers)

1. Industrial production--USSR

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30(7), 28(1)

S/028/60/000/04/001/023
D041/D006

AUTHOR: Kusil'man, M. S.

TITLE: The Level of Standardization and Normalization Work in Machine Building Must Be Raised.

PERIODICAL: Standartizatsiya, 1960, Nr. 4, pp 3-8 (USSR)

ABSTRACT: Early in 1960 a series of conferences was organized by the Komitet standartov, mer i izmeritel'nykh priborov, (Committee of Standards, Measures and Measuring Devices) on the standardization problems of important branches of industry. This article is the first of a series giving information on these conferences. In Feb 1960, the main organizations for standardization and normalization held a conference organized by the committee itself and the Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee for Automation and Machine Building of the Council of Ministers of the USSR). Over 160 persons participated - directors,

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chief engineers, senior designers and the chiefs of the standardization and normalization departments of leading research institutes, design organizations and industrial plants. A. Ye. Prokopovich, Chief of the Upravleniye machinostroyeniya (Machine Building Directorate of the State Committee for Automation and Machine Building) outlined the tasks and principles of standardization and normalization. A. Ye. Vyatkin, Chairman of the Committee of Standards, Measures and Measuring Devices, spoke of the functions and tasks of the main organizations in machine industry and the importance of standard and normalized machine and control elements, mentioning that there are now 8000 state standards for all products of industry and agriculture and that over 400 subjects have to be standardized before 1960; all previously completed industrial branch standards ("normali") must be unified in two years. The leading institutes of the machine industry have been commissioned to develop branch standards for common units

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and parts of mass-produced machines. The production of similar type products will be concentrated in a few specialized and well equipped plants. At present, the tool industry produces only 50% of tools and none of the basic technological equipment, scattered production causes no less than 3.5 billion rubles waste annually. In the course of the past six month decisions were taken determining the specialization progress for reduction gears, drive chains, and foundries; measures for standardizing small metal and other products are under consideration. General branch standards must be completed during 1960 and 1961 for the entire range of tools, attachments, dies and general auxiliary equipment. It is important that institutes and leading plants commissioned as Base Organizations become centers of standardization and coordinate the work, use their control right to the

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full, and watch the use of the standards in the industry. Particularly importance is attached to the role of the Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov, or ENIMS (Experimental Scientific Research Institute of Metal-Cutting Machine Tools) and its experience in standardization. The major trend in designing high-productive automatic equipment must be the production of standard component units for automatic lines and unit-head machine tools, but ENIMS is only slowly adapting to this trend, and recently the administration required the Committee of Standards to remove from their work plan for 1960 the development of standards for universal charging magazines for machine tools, gripping devices, and receiving and transporting devices. The Vsesoyuznyy nauchno-issledovatel'skiy institut sel'skokhozyastvennogo

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mashinostroyeniya (All-Union Scientific Research Institute of Agricultural Machine Building) and the Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktorny institut (State Union Scientific Research Institute for Tractors) have a vast amount of standardization work ahead. In the first place, standards for spare parts have to be developed, then for the engines of tractor types, hydraulic drives, wheels and caterpillar chains, etc. The Nauchno-issledovatel'skiy avtomotorny institut (Scientific Research Institute for Automobile Engines) has significant standardization duties but the administration underrates their importance and works only on random subjects. In 1959, this institute completed only one of its 5 plans. In 1959, the Committee of Standards checked on compliance with standards and specifications at more than 1000 plants, and discovered violations in many cases. Vasil'yev, ENIMS' chief engineer, mentioned in his report that ENIMS will give practical assistance to 90 plants

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and design organizations; seven design offices and the "Krasnyy proletariy" plant will take part in ENIMS normalization work. Accuracy norms will be developed for a whole range of precision machine tools during 1960 and a set of standards for the basic dimensions of machine tools for automatic lines will be prepared. "Normal" standards (industrial branch standards) will be developed and design types standardized for subjects like power heads, power and rotary tables, frames, turrets, etc, for automatic control systems including program control elements, and for automatic dimension control devices, etc. The target for 1975 is to complete unit normalization to permit combinations of units in most machine tool types with a minimum of special nonstandard components. Bayev, Deputy Director of VNII elektromekhaniki (VNII of Electromechanics) spoke of the institute's activities and

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mentioned that the output of the power industry will increase more than 2.5 times in the course of the Seven-Year-Plan. The power industry has about 280 standards for major products. The institute has now completed a standard for one general range of asynchronous general-purpose motors, and the plants producing them from standardized drawings raised output several times and cut the costs. VNII of Electromechanics has to guide and coordinate the work of all base organization and normalization in the power industry. Compliance to standards will be watched by the Standardization Department and the staffs of the research departments and laboratories of the institute. Gurevich, a representative from VNIISTroydormash stressed the necessity of early development of a general normalization system. The Director of the Standardization and Normalization Department of the Minister-

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stvo putey soobshcheniya, MPS, (Ministry of Transport) is taking measures to raise the multiplicity of equipment and materials to high quality level and compliance to standards, but certain items are still being produced with violations of standards (traction engines, track bolts, and washers, etc). Musinyan (of VNIPTMASH) said that in materials handling machinery production stress is put now on the automation of control. VNIPTMASH has organized a separate department for the standardization of loading-unloading machines. Chernova from Moskovskiy gorodskoy Sovnarkhoz (Moscow City Sovnarkhoz) spoke of the assistance given by base organizations to sovarkhozes in the standardization and normalization work at industrial plants, but stressed that the State Automobile Research Institute, the Automobile Engine Research Institute, the Vsesoyuznyy nauchno-issledovatel'skiy institut gidromashinostroyeniya

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(All-Union Scientific Research Institute for Hydro-Machinebuilding) have given no practical organizational help to Moscow plants. Technical reorganization for automation and mechanization is under way in Moscow plants but there is no coordinating and guiding center for it. Yevstyushin, the Director of VNIINMASH, said that experience has been acquired in plant and industrial branch normalization, but the normalization work being done is not perfect. ✓

Card 9/9

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USSR/Medicine - Diphtheria

FD-2307

Card 1/1 Pub 148 - 8/36

Author : Kusina, Ye. P.

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Periodical : Zhur. mikro. epid. i immun. No 2, 26, Feb 1955

Abstract : The effects of penicillin on diphtheria bacilli and the reactivity of the organism following experimental ocular infection of guinea pigs were investigated.

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99-7-13/14

SUBJECT: USSR/Bibliography (Literature)

AUTHOR: Kuskov, D.V., Candidate of Mechanical Sciences, Poyarkov, V.F., Engineer, and Prozorov, G.I., Engineer.

TITLE: "About the Book of Professor S.T. Altunin 'Regulation of River Beds'" (O knige prof. S.T. Altunina "Regulirovaniye Rusel".

PERIODICAL "Gidrotekhnika i Melioratsiya", 1957, # 7, pp 61-62 (USSR)

ABSTRACT: Professor Altunin's manual "Regulation of River Beds" is the first publication on this subject. The manual has 8 chapters, and deals with the following problems:

1. Conditions of river flow and the forming of channels.
2. Classification of Structures used in the regulation of river beds.
3. Planning and designing of regulating and protective structures.
4. Devising and regulating of river beds for water deliveries with and without dams.
5. Measures for the control of flood waters.
6. Regulation of river branches (arms), cleaning of river beds (channels), and construction of cuts.

Card 1/2

99-7-13/14

TITLE:

"About the Book of Professor S.T. Altunin 'Regulation of River Beds'" (O knige prof. S.T. Altunina "Regulirovaniye Rusel").

7. Flood control of down-stream sections of rivers, and at the mouths of large streams, as well as at upper pools of hydroelectric installations.

8. Rules of technical utilization of structures for the regulation of river beds.

Professor Altunin made use of experiences gained in foreign countries at river regulation work (Colorado, Mississippi etc). The manual contains also the latest methods of calculating resistant sections of self-forming river beds, which can be used for the calculation of upper and lower pools at hydroelectric stations. Of great interest for hydro engineers are the studies of the process of sedimentation at dams. Furthermore, the manual is of great value for persons concerned with irrigation projects, which call for large protective measures of river banks and extensive regulation work.

ASSOCIATION:

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress

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(Apartment houses) (Architecture--Designs and plans)